

External RFID card reader - How to connect it to 2N® Helios IP

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If you have in your **2N[®] Helios IP** internal RFID card reader and you would like to connect another one, you can easily do it by connecting external RFID card reader. External RFID card reader is interconnected with **2N[®] Helios IP** via Wiegand interface. Used RFID cards must be compatible with EM4002 standard and work on frequency 125 kHz.



Electrical Characteristics

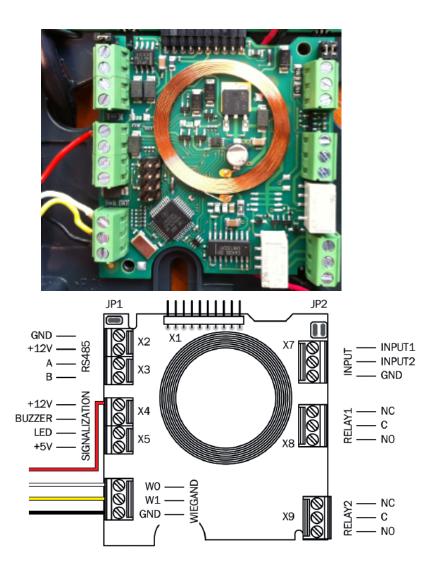
- Operating Voltage range
- Current consumption
- Operating frequency
- Read range
- Protection standard
- Cable

8 to 20V DC Standby 10 mA Maximum 35 mA 125 kHz 6 to 12 cm IP67 2 m, 8-core (AWG24)

2N[®] Helios IP Vario wiring

For **2N[®] Helios IP Vario** connect external card reader according to pictures below. Red wire connected to signalization bus providing card reader with +12 V power. If you are using external power supply, you don't have to connect this cable.

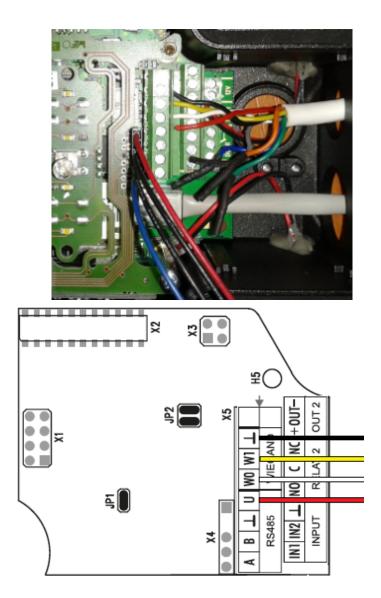




 $2N^{\ensuremath{\mathbb{R}}}$ Helios IP Force wiring

For **2N[®] Helios IP Force** connect external card reader according to pictures below. Red wire connected to RS485 bus providing card reader with +12 V power. If you are using external power supply, you don't have to connect this cable.





Configuration

When the wiring is done, go to **2N[®] Helios IP** web configuration menu and in **Card reader - Module setting** change parameter "Interface mode" to input. By this setting you will specify that **2N[®] Helios IP** will accept data from external card reader.



Information	Card reader settings	
	Card reader enabled:	Yes 💌
Basic Settings	Accepted HID cards:	26-bit, H10301 💌
Advanced Settings	Associated switch:	Switch #1
Card reader	Plus card ID:	
Module settings Installed cards	Minus card ID:	
Access log		
Tools	Wiegand interface	
	Interface mode:	Input 💌
	Change facility code:	No 💌
	Facility code:	0

Now when everything is set, you should be able to operate internal lock from external RFID card reader. If you enclose the card to reader, you should see orange LED which indicates the card detection.

More product information:

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Door & Security Intercoms (Official Website 2N)